Application No.: UNKNOWN

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## **Amendments to Claims**

Claim 1 (Currently Amended). An isolated nucleic acid fragment encoding a plant *cis*-prenyltransferase protein selected from the group consisting of:

- (a) an isolated nucleic acid fragment encoding all or a substantial portion of the amino acid sequence selected from the group consisting of as set forth in SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:12, SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18 and SEQ ID NO:20;
- \_(b) an isolated nucleic acid fragment that is substantially similar to an isolated nucleic acid fragment encoding all or a substantial portion of the amino acid sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:12, SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18 and SEQ ID NO:20;
- \_(c) an isolated nucleic acid fragment encoding a polypeptide, the polypeptide having at least 41% identity with the amino acid sequence set forth in SEQ ID-NO:24;
- \_(d) an isolated nucleic acid fragment encoding having at least 50% identity with nucleic acid sequence as set forth in SEQ ID NO:23;
- (be) an isolated nucleic acid molecule that hybridizes with a nucleic acid sequence of (a) (b), (c) or (d) under the following hybridization conditions when washed with: 0.1X SSC, 0.1% SDS, 65°C and washed with 0.2X SSC, 0.5% SDS;
- \_(f) an isolated nucleic acid fragment that hybridizes with a nucleic acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:17 and SEQ ID NO:19 under the following hybridization conditions: 0.1X SSC, 0.1% SDS, 65°C and washed with 0.2X SSC, 0.5% SDS; and or
- (cg) an isolated nucleic acid fragment that is <u>completely</u> complementary to (a), <u>or (b).</u>; (c), (d), (e) or (f).

Claim 2 (Currently Amended). The isolated nucleic acid fragment of Claim 1 selected from the group consisting of as set forth SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:17 and SEQ ID NO:19.

## Claims 3-4 (Canceled).

Claim 5 (Original). A chimeric gene comprising the isolated nucleic acid fragments of Claim 1 operably linked to suitable regulatory sequences.

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Claim 6 (Original). A transformed host cell comprising a host cell and the chimeric gene of Claim 5.

Claim 7 (Original). The transformed host cell of Claim 6 wherein the host cell is selected from the group consisting of plant cells and microbial cells.

Claim 8 (Currently Amended). A host cell according to Claim 7 selected from the group consisting of tobacco (Nicotiana spp.), tomato (Lycopersicon spp.), potato (Solanum spp.), hemp (Cannabis spp.), sunflower (Helianthus spp.), sorghum (Sorghum vulgare), wheat (Triticum spp.), maize (Zea mays), rice (Oryza sativa), rye (Secale cereale), oats (Avena spp.), barley (Hordeum vulgare), rapeseed (Brassica spp.), broad bean (Vicia faba), french bean (Phaseolus vulgaris), other bean species (Vigna spp.), lentil (Lens culinaris), soybean (Glycine max), arabidopsis (Arabidopsis thaliana), guayule (Parthenium argentatum), cotton (Gossypium hirsutum), petunia (Petunia hybrida), flax (Linum usitatissimum); and carrot (Daucus carota sativa); and Hevea.

Claim 9 (Original). The transformed host cell of Claim 7 wherein the host cell is selected from the group consisting of Aspergillus, Saccharomyces, Pichia, Candida, Hansenula, Bacillus, Escherichia, Salmonella and Shigella

Claim 10 (Original). A method of altering the level of expression of a plant *cis*-prenyltransferase protein in a host cell comprising:

- (a) transforming a host cell with the chimeric gene of Claim 6 and;
- (b) growing the transformed host cell produced in step (a) under conditions that are suitable for expression of the chimeric gene resulting in production of altered levels of a plant *cis*-prenyltransferase protein in the transformed host cell relative to expression levels of an untransformed host cell.

Claim 11(Currently Amended). A method according to Claim 10 wherein the host cell is a plant cell selected from the group consisting of tobacco (*Nicotiana* spp.), tomato (*Lycopersicon* spp.), potato (*Solanum* spp.), hemp (*Cannabis* spp.), sunflower (*Helianthus* spp.), sorghum (*Sorghum vulgare*), wheat (*Triticum* spp.), maize (*Zea mays*), rice (*Oryza sativa*), rye (*Secale cereale*), oats (*Avena* spp.), barley (*Hordeum vulgare*), rapeseed (*Brassica* spp.), broad bean (*Vicia faba*), french bean (*Phaseolus vulgaris*), other bean species (*Vigna* spp.), lentil (*Lens culinaris*), soybean (*Glycine max*), arabidopsis (*Arabidopsis thaliana*), guayule (*Parthenium argentatum*), cotton (*Gossypium hirsutum*), petunia (*Petunia hybrida*), flax (*Linum usitatissimum*) ;and-carrot (*Daucus carota sativa*); and *Hevea*.

Claim 12 (Original). A method according to Claim 11 wherein the altering the level of expression of a plant *cis*-prenyltransferase protein results in a modulation in the defense mechanism of the plant.

Claims 13-15 (Canceled).